

VEHICLE TECHNOLOGIES PROGRAM

Ford Escape Advanced Research Fleet

Number of vehicles: 21 Date range of data received: 11/01/2009 to 07/31/2011

Reporting period: Nov 09 - July 11 Number of vehicle days driven: 6,146

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	101
Overall DC electrical energy consumption (DC Wh/mi) ²	66
Total number of trips	27,041
Total distance traveled (mi)	339,602

Trips in Charge Depleting (CD) mode³

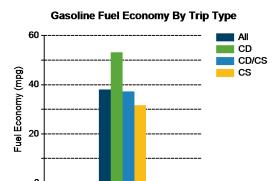
Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi) ⁴	169
Number of trips	15,221
Percent of trips city highway	84% 16%
Distance traveled (mi)	87,030
Percent of total distance traveled	26%

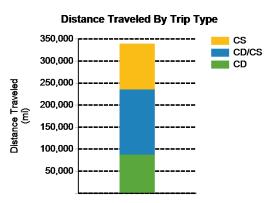
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

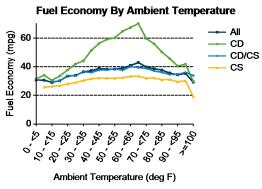
Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	55
Number of trips	5,161
Percent of trips city highway	38% 62%
Distance traveled (mi)	148,155
Percent of total distance traveled	44%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	6,652
Percent of trips city highway	65% 35%
Distance traveled (mi)	104,417
Percent of total distance traveled	31%







Notes: 1 - 7. Please see http://avt.inl.gov/pdf/phev/fordreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

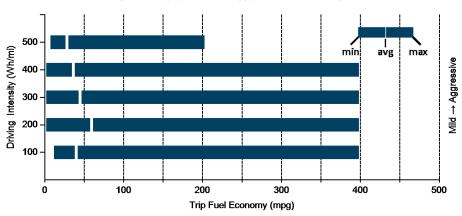
"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

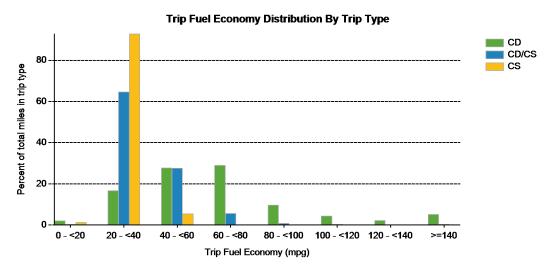


Average trip distance (mi)

Trips in Charge Depleting (CD) mode	Citv	Highway		
Gasoline fuel economy (mpg)	49	58		
DC electrical energy consumption (DC Wh/mi)	170	169		
Percent of miles with internal combustion engine off	39%	13%		
Average trip driving intensity (Wh/mi)	266	305		
Average trip distance (mi)	4	17		
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode				
Gasoline fuel economy (mpg)	43	36		
DC electrical energy consumption (DC Wh/mi)	76	52		
Percent of miles with internal combustion engine off	30%	5%		
Average trip driving intensity (Wh/mi)	278	325		
Average trip distance (mi)	9	40		
Trips in Charge Sustaining (CS) mode				
Gasoline fuel economy (mpg)	30	32		
Percent of miles with internal combustion engine off	23%	4%		
Average trip driving intensity (Wh/mi)	266	321		

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



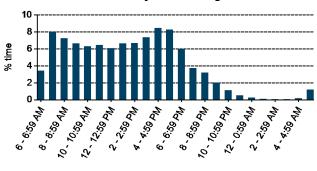




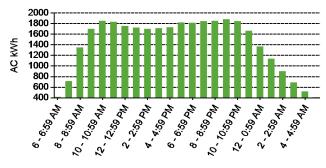
Plug-in charging

Average number of charging events per vehicle per month when driven	45	
Average number of charging events per vehicle per day when driven	3.1	
Average distance driven between charging events (mi)	18.0	
Average number of trips between charging events	1.4	
Average time plugged in per charging event (hr)	6.1	
Average time charging per charging event (hr)	1.3	
Average energy per charging event (AC kWh)	1.8	
Average charging energy per vehicle per month (AC kWh)	81.3	
Total number of charging events	18,882	
Total charging energy (AC kWh)	34,143	





Time of Day When Charging



Time of Day When Plugging In

